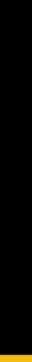
DRUM COMPA

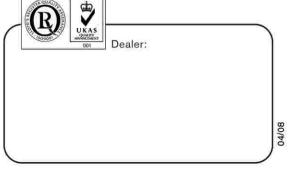




OFFICE AND CENTRAL FACTORY COMOPLESA - LEBRERO, S.A.

Avda. Alcalde Caballero, nº 32 • Pol. Industrial «El Pilar» 50014 Zaragoza (Spain) E/P.O. Box 402 • Tel (+34) 976 464 300 • Fax (+34) 976 464 301 http://www.lebrero.com • E-mail: info@lebrero.com

The machines illustrated may show optional equipment which can be supplied at additional cost. Specifications may change without notice.







EXPERIENCE

LEBRERO with more than 50 years in the compaction industry, have and had have in mind always, customers opinions, due to and for them, designed and developed the last generation in compactors, the high impact roller (H.I.R.).

Power and technology

Two combinations to go further. A sophisticated compaction system able to obtain a 66% more performance.

A combination of the best components in the market to obtain the lower sound levels with an excellent internal finish to reduce operators' fatigue. Designed to comply with the strongest safety and environmental standards actually demanded.





..... Your choice.

TECHNOLOGY

Developed by LEBRERO, H.I.R is a new concept in compaction that has the advantage of offering greater efficiency with less weight.

What is the difference between H.I.R and conventional compactors?

The essential difference is the H.I.R.'s special vibrating behaviour due to a new and original proportioning of the parameters that make-up its design.



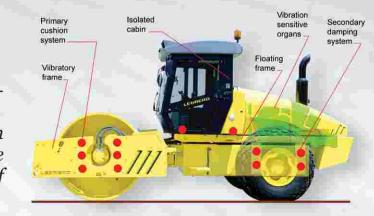
Conventional Compactor

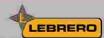


H.I.R design Compactor

When working, the H.I.R. model takes advantage of the mass of the machine structure: drum & frame. A conventional model only takes advantage of the drum mass. The result is that with a lighter H.I.R model, we obtain greater performance than with a heavier conventional machine. In other words, give equal weight, the H.I.R model is more efficient

The distinctive H.I.R design, its engineering and the location of its shockabsorbing systems, to obtain an increase in the mass factor over the drum weight are the patent secrets of this LEBRERO Innovation





RANGE

IN DETAIL

LEBRERO offers a complete range of compactors, with an ideal model for each specific job. The smallest models (X2 and X3) combine the versatility of the equipment with economy of cost.

They adapt to repair jobs like no other machine on the market, with original and robust designs.



The bigger range (X4, X5 and X6) is composed of the H.I.R. high performance models, with high mechanical impact capable of compacting layers greater than 120 cm.

The combination in each machine of two compaction techniques - high impact and concordance - make specialisation and versatility possible.

The special configuration of the machine, with a large concentration of mass on the vibrating drum, provides an enormous impact force that distinguishes the machine by its exceptional performance in all applications.



Moreover, the entire X series can be supplied with smooth or padfoot drums, or, padfoot shells can be fitted on the smooth drum, thereby giving the equipment great versatility. Upon request, machines can be manufactured with sprinkling equipment and smooth wheels for work on asphalt.

Using the best mechanical and hydraulic components, Lebrero rollers offers comfort, easy operation and maintenance, ergonomic, everything have in mind to make operator's easy to work with the machine and at the time of making the necessary and recommended, maintenance works.



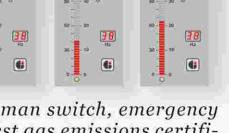


Units incorporates as standard equipment, full visibility cabins, heaters, window wipers, L&R rear mirrors, adjustable seat and steering wheel, manual or automatic vibration switch, lockable windows and optional like A/C, padfoot drum or kit padfoot shells, wide range of compactmeters, tacographs and others.







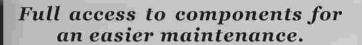


Safety devices, ROPS/FOPS structure, seat belt, death man switch, emergency brake, ecological engines which complies with the latest gas emissions certifications, reduced noise levels due to the use of special noise absorbents mate rials, etc, everything thinking on You.





High nozzles to help air flow recirculation to the engine/pumps area and radiator.





Drive control lever and potentiometers which regulate engine rpm.



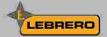


Double frame, cabin entry steps and fuel lever indicator views.

Location of hydraulic filters, hydraulic pumps with pressure inlets, more accessibility and easier.



Heavy duty type artivculation, with greasing points.



IN OPERATION



JITHESE ARE THE FACTS!!

- Unique H.I.R. design (double frame)
- Higher amplitudes
- Bigger static lineal loads
- Lower frequencies





With these, Lebrero has obtained the most productivity rollers in the market.

Reduce your work timings, work where others could not do it properly.







Weights

From 8.000 to 19.000 kg with smooth drum.

From 12.000 to 23.000 kg with padfoot drum/shells.



Engine

Manufacturer Power SAE J 1995 Cooling

Cummins 130 to 175 hp. Liquid



Electrical

Battery

2 x 12 volt.



Propulsion

Drive & Vibration pumps Drum and Axle drive motors:

Vibration & axle motors Axle Gradeability*

Axial pistons, variable flow. X2: Low speed high torque hvd. motor.

X3 to X6: Reducer wih axial piston motor and variable flow. Axial pistons and fix flow. Self blocking type.

Up to 75%

From 0 to 13 km/h, progresive.



Speed

Brakes

Service Parking & Emergency Hydrostatic Multidisc with negative drive at drum and wheels.



Steering

Type frames.

Articulation 30° Oscillation 10°

Oscillating articulated



Drums & Tyres

Smooth Drum:

Widths 1 675 to 2 150 mm Diameters 1 200 to 1 600 mm Shell thickness 20 to 50 mm

Padfoot drum/shells:

Widths 1 675 to 2 150 mm

Pads heights 100 mm



Vibration

Isolation Rubber shock absorbers Frequencies From 20,83 to 27,50 hz.

(1 250 to 1 650 rpm) 2 (high & low) Amplitudes

From 1,42 to 2,67 mm.

Centrifugal force From 10 658 to 41 594 daN Static linear loads From 24 to 58 kg/cm



Capacities

Fuel tank 300 liters Hydraulic tank 165 to 220 liters Drum 10 to 29 liters Axle 9 to 15 liters Engine 12,5 to 17 liters Cooling 19 to 25 liters



Technical specifications of the X range

Nominal amplitude	20 76 45 77 19 00 41 89 6 45 14 22 12 55 27 67 57,9 326,9 6 15 13 57 2 37 5 22	16 950 37 375 15 250 33 626 5 175	15 310 33 759	13 460	8:300			MAXIMUM MASS
TOTAL MASSES	45 77 19 00 41 89 6 45 14 22 12 55 27 67 57,9 326,9 6 15 13 57 2 37	37 375 15 250 33 626 5 175	33 759					MAXIMUM MASS
TOTAL MASSES UNE 115-434 kg 8 100 11 900 13 700 15 250 Dn shafts Wheels kg 4 050 4 385 5 480 5 176 Drum kg 4 050 7 515 8 200 10 075 lb 8 930 9 669 16 571 18 081 22 115 Load Static lineal kg/cm 23,88 34,89 39,11 471 Load Static lineal kg/cm 23,88 34,89 39,11 472 Load Static lineal kg/cm 23,88 34,89 39,11 472 Load Width mm 5 035 5 500 5 960 6 080 Width mm 1 102 12 248 13 142 13 406 In 11 102 12 248 13 142 13 406 Width mm 1 975 2 300 2 300 2 350 Height mm 2 935 3 045 3 075 3 075 In 6 472 6 714 6 780 6 780 Drum Diameter mm 1 200 1 450 1 450 1 505 Width mm 1 675 2 135 2 135 2 135 Width mm 1 66 8 4 84 83 Thickness mm 20 25 30 40 Thickness mm 20 25 30 40 Thickness mm 20 25 30 40 Real. Amp. max. (2 A) mm 3,50 5,66 9,10 8,90 Real. Amp. max. (2 A) mm 3,50 5,66 9,10 8,90 Real. Amp. max. (2 A) mm 3,50 5,66 9,10 8,90 Real. Amp. max. (2 A) mm 3,50 5,66 9,10 8,90 Frequency Hz 27,50 27,50 20,83 20,83 20,83 40 Frequency Hz 27,50 27,50 20,83 20,83 20,85 40 Frequency Hz 27,50 27,50 20,83 20,83 20,85 40 Frequency Hz 27,50 27,50 20,83 20,83 20,85 17/m 1 850 1,650 1,550 1,550 1,50	19 00 41 89 6 45 14 22 12 55 27 67 57,9 326,9 6 15 13 57 2 37	15 250 33 626 5 175		29 679				MENTINGIN MINOC
10	41 89 6 45 14 22 12 55 27 67 57,9 326,9 6 15 13 57 2 37	33 626 5 175	19 700					
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Drum	12 55 27 67 57,9 326,9 6 15 13 57 2 37	11 411					Wheels	On shafts
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Load Static lineal kg/cm 23,88 34,89 39,11 47,62 268,74 MAXIMUM DIMENSIONS Lenght mm 5 035 5 600 5 960 6 080 Width mm 1 102 12 348 13 142 13 406 Width mm 1 975 2 300 2 300 2 300 Height mm 2 935 3 045 3 075 3 075 In 4 355 5 071 5 071 5 192 Height mm 2 935 3 045 3 075 3 075 In 6 472 6 714 6 780 6 780 Drum Diameter mm 1 200 1 450 1 450 1 555 In 47 57 57 60 Width mm 1675 2 135 2 135 2 135 Width mm 1675 2 135 2 135 2 130 In 66 84 84 83 Thickness mm 20 2 5 30 44 In 0,79 0,98 1,18 1,57 COMPACTION Thickness mm 1,42 1,89 2,35 2,67 Real. Amp. max. (2.A) mm 3,50 5,66 9,10 8,90 High impact Centrifugal force daN 10 658 22 571 18 729 26 447 Frequency Hz 27,50 27,50 20,83 20,83 Frequency Hz 27,50 27,50 20,83 20,83 Impact Jule Jule Jule Jule Jule Jule Jule Low e.m. Classification UNE 115-435 VM2 VM3 VM4 VM5 Nominal Amplitude mm 0,58 0,58 0,90 1,22 Low e.m. Classification UNE 115-435 VM2 VM3 VM4 VM5 Nominal Amplitude mm 0,58 0,58 0,90 1,22 Low e.m. Classification UNE 115-435 VM1 VM1 VM2 VM3 Nominal Amplitude mm 0,58 0,58 0,90 1,22 Low e.m. Classification UNE 115-435 VM1 VM1 VM2 VM3 Nominal Amplitude mm 0,58 0,58 0,90 1,22 Low e.m. Classification UNE 115-435 VM2 VM3 VM4 VM5 Real amp. (2.A) mm 0,58 0,58 0,90 1,22 Low e.m. Classification UNE 115-435 VM2 VM3 VM4 VM5 Nominal Amplitude mm 0,58 0,58 0,90 1,22 Low e.m. Classification UNE 115-435 VM1 VM1 VM2 VM3 Nominal Amplitude Mm 0,58 0,58 0,90 0,12 Low e.m. Classification UNE 115-435 VM1 VM1 VM2 VM3 Nominal Amplitude Mm 0,58 0,58 0,90 0,12 Low e.m. Classification UNE 115-435 Um	57,9 326,9 6 15 13 57 2 37						Drum	
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MAXIMUM DIMENSIONS	6 15 13 57 2 37						Static tinear	Load
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Drum Diameter mm 1.200 1.450 1.450 1.525	3 08						Height	
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Width	1 60						Diameter	Drum
Thickness	6	60	57	57	47	in		
Thickness	2 15	2 100	2 135	2 135	1 675	mm	Width	
COMPACTION High e.m. Classification UNE 115-435 Nominal amplitude mm 1,42 1,89 2,35 2,67 1 18 729 10,11 18 1,57 1 1	8	83	84	84	66	in		
COMPACTION High em. Classification UNE 115435 Nominal amplitude mm 1,42 1,89 2,35 2,67 in 0,06 0,07 0,09 0,11 Real. Amp. max. (2.A) mm 3,50 5,66 9,10 8,90 in 0,14 0,22 0,36 0,35 10,31 11,89 12,50 12	5	40	30	25		mm	Thickness	
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Nominal amplitude								- Contract of the Contract of
Real. Amp. max. (2.A)	VM	VM5	VM4	VM3	VM2			High e.m. Classification UNE 115-435
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Frequency	0,0					in		
High impact Centrifugal force daN 10 658 22 571 18 729 26 447	9,9						Real. Amp. max. (2.A)	
B	0/3							
Frequency	41 59						Centrifugal force	High impact
Impact	93 50							
Impact	23,3						Frequency	
Low e.m. Classification UNE 115-435 VM1	1 40						F	
Low e.m. Classification UNE 115-435 VM1	6,7 17,2						Impact	
Nominal Amplitude								OF THE USE OF
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Max. Real amp. (2.A) mm 2,05 2,03 3,15 3,71 in 0,08 0,08 0,12 0,15 0,	0.0						Nominal Ampirude	
In	4,8						May Real amp (9.A)	
Concordance Centrifugal force daN 4 389 6 897 11 065 18 535	0,1		N 10 7 2				max. real amp. (a.r.y	
B	25 83						Centrifugal force	Concordance
Frequency	58 08						Containages (O/CC)	Control Gallos
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Engine Make Cummins Cu	1 55						r-roquorug	
Model QSB 4.5 TAA QSB 6.7 TAA QSB 6.7 TAA N° cylinders/cooling 4/liquid 4/liquid 6/liquid 6/liquid Power SAE J 1995 kW 97,0 97,0 119,0 119,0 CV 131,0 131,0 161,0 161,0 HP 130,0 130,0 160,0 160,0	Cummin	Cummins	Cummins	Cummins	Crummins			
N° cylinders/cooling 4/liquid 4/liquid 6/liquid 6/liquid 6/liquid 6/liquid Power SAE J 1995 kW 97,0 97,0 119,0 119,0 CV 131,0 131,0 161,0 161,0 HP 130,0 130,0 160,0 160,0	QSB 6.7 TA							- Andrews
Power SAE J 1995 kW 97,0 97,0 119,0 119,0 CV 131,0 131,0 161,0 161,0 HP 130,0 130,0 160,0 160,0	6/liqui		Commence of the control of the contr		A STATE OF THE STA			
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	173,			The second secon				
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	30	300				1		
US gal 79,3 79,3 79,3 79,3	79,	79,3	79,3	79,3	79,3	US gal		
Drive Type HYDROSTATIC								Drive
Drive Elements AT WHEELS, SELF BLOCKING DIFERENTIAL. MOTOREDUCERS AT DRUM EXCEPT X2 (HYDI					AT WHEELS			
	23.1 x 2	23.1 x 26	The second secon	The state of the s	14.9x24		A SECTION AND ADDRESS OF THE PROPERTY OF THE P	
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	0 - 1	0 - 13	The state of the s				Speed (4 except x2 (2)	
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Parking & emergency MULTIDISC WITH NEGATIVE DRIVE AT WHEELS AND DRUM								
Steering Type OSCILLATING ARTICULATED FRAMES Drive HYDROSTATIC THROUGH ORBITROL		To an a second						Steering
	3	30			II	0		
	1	10				0		
		4 913				mm	~ ~	
	4 99		193,05	187,27	176,19	in		

^{*} Max. Gradeability, depends on soils and working conditions, options, etc...